Application No. 10/538,897 Attorney Docket No. 09877.0356

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

- 1-13. (Cancelled).
- 14. (Currently Amended) A burner for a vapour deposition process, comprising:

a central nozzle for ejecting a glass precursor material, said central nozzle having a concave shape shaped cross-section; and

an annular nozzle surrounding said central nozzle for ejecting an innershield gas.

- (Previously Presented) The burner according to claim 14, wherein said central nozzle has a symmetry about an axial plane.
- (Currently Amended) The burner according to claim 14, further comprising at-least a [[crown]] ring of nozzles surrounding said central nozzle for ejecting a flame reactant.
- 17. (Currently Amended) The burner according to claim 16, furthercomprising a circular wherein the annular nozzle is located between said central nozzle
 and said [[crown]] ring of nozzles for electing an innershield gas.

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- 18. (Previously Presented) The burner according to claim 17, wherein said central nozzle has first angular sectors of minimum radial dimensions and second angular sectors of maximum radial dimensions.
- 19. (Currently Amended) The burner according to claim 18, wherein said atleast a crewn ring of nozzles comprises a first set of nozzles in the same angular positions of said second angular sectors and a second set of nozzles in the same angular positions of said first angular sectors.
- 20. (Currently Amended) The burner according to claim 19, further comprising a first set of erifices exiting ducts terminating in said first set of nozzles and a second set of erifices exiting ducts terminating in said second set of nozzles, the erifices ducts of the first set being inclined at a first angle with respect to a central axis of said burner and the erifices ducts of the second set being inclined at a second angle with respect to said central axis, said second angle being greater than said first angle.
- 21. (Currently Amended) The burner according to claim 14, having a central duct exiting terminating in said central nozzle for the passage of said glass precursor material, and comprising a central member positioned inside the central duct for forcing the glass precursor material toward [[the]] an external boundary of said central nozzle.
- 22. (Previously Presented) The burner according to claim 21, wherein the central member has at least an enlarged portion that substantially fits with external walls of said central duct.

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 (Withdrawn) A chemical vapor deposition process, comprising ejecting a stream of glass precursor material having a concave cross section.

- (Withdrawn) The process according to claim 23, further comprising producing a between said stream of glass precursormaterial and said flame.
- 25. (Withdrawn) The process according to claim 23, wherein said stream of glass precursor material has a central axis, wherein said cross-section has first angular zones of maximum radial extension alternated to second angular zones of minimum radial extension, and wherein producing a flame comprises ejecting combustible gases along a first direction with respect to said axis at first angular positions corresponding to said first angular zones and along a second direction with respect to said axis at second angular positions corresponding to said second angular zones, said second angle being greater than said first angle.
- 26. (Withdrawn) The process according to claim 23, wherein said stream of glass precursor material is ejected with a velocity that is maximum in a region around a central axis of said stream.